

FY2011 Defense Appropriations Requests

(listed in alphabetical order)

Brain Safety Net Program, University of Oregon - \$3,750,000

The funds will be used to acquire the latest generation Magnetic Resonance Imaging (MRI) system that will enable University of Oregon scientists to advance their neuro-rehabilitation research program. The project has the potential to improve the lives of veterans injured during service in Iraq and Afghanistan. An individual's ability to effectively use a prosthetic device or manage the consequences of a traumatic brain injury means a higher quality of life and better opportunities for employment.

University of Oregon
1266 University of Oregon
Eugene, OR 97403

Northwest Manufacturing Initiative - \$2,550,000

The Pacific Northwest has a highly diversified manufacturing economy. Manufacturers, despite the current recession, are one of the largest generators of living wage jobs in the region. And they have the capacity to provide more living wage jobs as they adopt new innovations and technologies to their existing products and processes or develop new ones that meet the needs of the defense marketplace. NMI is especially committed to the expansion of the capabilities of small and medium size manufacturers, who often find it difficult to access and apply new technologies to their products – thus limiting their ability to meet the logistics and product acquisition needs of the Department of Defense.

Manufacturing 21 Coalition
1100 SW Sixth Avenue, Suite 1425
Portland, OR 97204

ONAMI Safer Nanomaterials and Nanomanufacturing - \$5,000,000

The purpose of the project is to seed high-risk research projects with DoD clients that will lead to research growth in Oregon (follow-on projects) and commercialized technology (both by industry incumbents and ONAMI-supported startup companies). Research funding has both direct stimulating effect (most funds go to graduate student, technician and researcher salaries) and investment effect (develop IP that is more likely to be commercialized in Oregon since the research was done here).

University of Oregon
383 Onyx Bridge
Eugene, OR 97403

ONAMI Military Energy Initiative - \$5,000,000

To develop a diverse range of micro and nanotechnology-enabled mobile military energy technologies (MMET) for military vehicles that contribute substantially to this goal. The ONAMI team will work with the Army Tank and Automotive Research, Development and Engineering Center (TARDEC) to provide efficient and sustainable energy technologies for military transportation applications to reduce operational and installation energy use while maintaining or enhancing mission capability.

Oregon State University
204 Rogers Hall
Corvallis, OR 97331

ONAMI Nanoelectronics, Nanometrology & Nanobiotechnology (N3I) Initiative - \$5,000,000

This project focuses on important applications of nanotechnology in three nanoscale areas: measurement/imaging, electronics, and biomedicine. The respective challenges in these three areas are: providing a "window" into the nanoscale world, evaluating nanoelectronics devices that will extend the "Moore's Law" scaling of integrated circuits, and providing tools that will enable discoveries and clinical applications in molecular-based medicine of the future. The integrating theme for these specific applications is that discoveries in one discipline may have a major impact on other disciplines. There are Oregon companies that are directly interested in this work: FEI, the world's leading nanometrology company, Intel, the world's leading semiconductor manufacturer, Invitrogen, the first company to bring quantum dot detection into biomedicine, and Virogenomics, and OHSU-based company for commercializing biomedical technologies.

Portland State University
1719 SW 10th Ave.,
Portland, OR 97201

Oregon National Guard Yellow Ribbon Reintegration Reintegration Program - \$1,600,000

Purpose of the Oregon National Guard Reintegration Program is to provide a continuum of support for service and family members throughout the deployment cycle by organization facilitation, and conducting of "off site" events. These events serve to educate the warriors and their families on social service issues including employment and healthcare.

Oregon Military Department
1776 Militia Way SE
Salem, OR 97301

Treatment of Battlefield Spinal Cord and Burn Injuries - \$4,000,000

Funding is requested to launch clinical trials to test the efficacy and safety of spinal laminectomy within a three-hour period after injury as a treatment for acute spinal injury and to explore adjunctive therapies including cooling, use of anti-inflammatory drugs and autologous cell therapies. Funding will also be dedicated to enhance production of human tropoelastin and for development of elastin deposition devices for clinical trials, animal and Phase 1 human clinical trials to treat severe burn injuries. These new paradigms for the treatment of spinal cord and burn injuries are desperately needed to improve outcomes for injured military personnel and civilians. Burns and spinal cord injuries continue to plague our service men and women in combat in Iraq and Afghanistan. American citizens have no higher duty than to care for our wounded warriors and to do all we can to return them to normal lives. Success of these revolutionary approaches could reduce the long term cost of caring for wounded soldiers and similarly injured civilians.

Oregon Medical Laser Center
9205 SW Barnes Road
Portland, OR 97225